

**Amendments to the claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**AMENDMENTS TO THE CLAIMS**

1-65. (Canceled).

66. (Currently amended) A system for collecting a plurality of samples of breath of a subject comprising:

an breath conduit oral/nasal cannula adapted to convey exhaled breath from the subject;

a pump for collecting said exhaled breath from the subject by means of its suction effect;

a carbon dioxide sensor for determining carbon dioxide level in said exhaled breath, wherein said sensor is adapted to provide a signal indicative of said carbon dioxide level in said exhaled breath, wherein said signal triggers the commencement of collection of samples of at least part of said exhaled breath;

a plurality of sample containers for collection of said plurality of samples;  
and

a sample distributor adapted to receive said breath motioned by said pump  
and to direct different collected samples of said exhaled breath to different ones of said plurality of sample containers.

67. (Previously presented) A system according to claim 66 and also comprising a controller, and wherein said different samples of said exhaled breath are directed to different ones of said plurality of sample containers according to said controller.

68. (Previously presented) A system according to claim 66 and wherein said sample distributor is operated manually.

69. (Previously presented) A system according to claim 66 wherein said sample distributor directs said samples at predetermined times.